



Government of Kerala



നം. KITE/2021/1035 - 2 (12)

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ഹയർ സെക്കണ്ടറി (പന്ത്രണ്ടാം ക്ലാസ്) 2021 ലെ പരീക്ഷക്ക് കൂടുതൽ ശ്രദ്ധനൽകേണ്ട പാഠഭാഗങ്ങൾ പൊതുവിദ്യാഭ്യാസ ഡയറക്ടർ 31.12.2020 ലെ ക്യു.ഐ.പി.1/ 9141/2020/ഡിജിറ്റൽ നമ്പർ കത്ത് പ്രകാരം പ്രസിദ്ധീകരിച്ചിട്ടുണ്ട്. 'ഫസ്റ്റ്ബെൽ' പ്രകാരമുള്ള ക്ലാസുകളിൽ ഓരോ വിഷയത്തിന്റെയും കൂടുതൽ ശ്രദ്ധനൽകേണ്ട പാഠഭാഗങ്ങളും (FOCUS AREA) ഓരോ ക്ലാസിലും അവ പ്രതിപാദിക്കുന്ന സമയത്തിന്റെ വിശദാംശങ്ങളും ഇതോടൊപ്പം പ്രസിദ്ധീകരിക്കുന്നു. ക്ലാസുകൾ എപ്പിസോഡുകൾ തിരിച്ച് firstbellkite.kerala.gov.in പോർട്ടലിൽ ലഭ്യമാണ്. ഓരോ വിഷയത്തിനും രണ്ടു മുതൽ നാലുവരെ എപ്പിസോഡുകളുടെ ദൈർഘ്യമുള്ള പ്രത്യേക റിവീഷൻ ക്ലാസുകളും തുടർന്ന് പോർട്ടലിൽ ലഭ്യമാക്കും. കുട്ടികൾക്ക് പരീക്ഷയ്ക്കായി ഫോക്കസ് ഏരിയയിലുള്ള പാഠഭാഗങ്ങൾ എളുപ്പത്തിൽ കാണുന്നതിന് ഒരക്കിയിട്ടുള്ള ഈ സംവിധാനം എല്ലാവരും പ്രയോജനപ്പെടുത്തുമെന്ന് കരുതുന്നു.

കെ. അൻവർ സാദത്ത്
ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ

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പന്ത്രണ്ടാം ക്ലാസ് പൊതുപരീക്ഷക്ക് കൂടുതൽ ശ്രദ്ധനൽകേണ്ട ഭാഗങ്ങൾ

1. English

ക്രമനമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	
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2. Malayalam

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2	പ്രകാശം ജലം പോലെയൊണ്	4,5,6,	Full
3	കിരാതവൃത്തം	7,8,9,10	Full
4	അവകാശങ്ങളുടെ പ്രശ്നം	11,2,13,14	Full
തനതിടം			
1	കാക്കാരശ്ശിപ്പാട്ട്		Full
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3	അഗ്നിവർണ്ണന്റെ കാലുകൾ	19,20,21,22	Full
4	പദത്തിന്റെ പഥത്തിൽ	23,24,25,26	Full

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3. Hindi

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4. Sanskrit

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5. Urdu

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6	Mughal e Aazam (مغل اعظم)	6	
7	Mughal e Aazam (مغل اعظم)	7	
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9	Ghazal (غزل)	9	
10	Mirza Ghalib (مرزا غالب)	10	
11	Mirza Ghalib (مرزا غالب)	11	
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6. Arabic

ക്രമനമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	സമയം
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7. Mathematics

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8. Physics

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10. Zoology

ക്രമ നമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	സമയം
1	HUMAN REPRODUCTION		
	3.1 Male reproductive system (Location of testes & its significance ; reproduction Cells lining Seminiferous tubules & their function; Duct System)	1 2	21.5 to 26 mts upto 21 mts
	3.2 The female reproductive system (Oviduct, Uterus, Significance of Hymen)	3	0.2 to 17.25
	3.3 Gametogenesis (Spermatogenesis ,Oogenesis,Role of Hormones - FSH & LH in Spermatogenesis; Structure of Sperm)	4	2.23 to 22.15
		5	Upto 22 mts
	3.4 Menstrual cycle (Hormones involved)	6	1.15 to 27
	3.5 Fertilization and implantation (Site of fertilisation; Morula;Structure of Blastocyst)	7	1.35 to 19
	3.6 Pregnancy and embryonic development (Placenta, hCG, hPL, Relaxin }	8	Up to 18 mts
	3.7 Parturition & Lactation (Colostrum)	9	Upto 12.15
2	REPRODUCTIVE HEALTH		
	4.1 Reproductive health problems and strategies (Amniocentesis)	9	9.41 to 23
	4.2 Population explosion and birth control (IMR;MMR; Birth Control Measures - Natural, Barrier, IUD's, Oral Contraceptives, Surgical methods.)	10	Up to 27 mts
		12	Upto 25 mts
	4.3 Medical Termination of Pregnancy (What is MTP;Why MTP)	13	2.51 to 27 mts
	4.4 Sexually transmitted diseases (Examples of STD; Measures to avoid STD's)	13	16.02 to 27 mts
4.5 Infertility(Assisted Reproductive Technologies in detail)	14	Upto 27 Mts	
3	PRINCIPLES OF INHERITANCE AND VARIATION		
	5.1 Mendel's Laws of Inheritance(Table 5.1)Contrasting Traits studied by Mendel in Pea	15	20 to 26 Mts
	5.2 Inheritance of one gene (Allele,Genotype, Phenotype)	16	12 to 18 mts
	5.2.2.1 Incomplete dominance (Definition, Ratio & Cross only)	18	14 to 24 Mts

	5.2.2.2 Co-dominance (Blood Grouping in man, Table 5.3)	19	1.55
	5.3.2 Chromosomal Theory of Inheritance (Reasons for selecting drosophila as the experimental material by morgan)	20	12.28
	5.4.1 Sex determination in Humans	21	14.54
	5.6.1 Pedigree analysis	22 23	16 to 21 Mts 6 to 8 Mts
	5.6.2 Mendelian disorders (Sickle Cell Anaemia, Haemophilia}	23	8 to 29 Mts
	5.6.3 Chromosomal disorders (Down's Syndrome, Klinefelter's Syndrome, 'Turner's Syndrome)	25	10 to 24 Mts
	MOLECULAR BASIS OF INHERITANCE		
4	6.1.1. Structure of polynucleotide chain (Salient Features of Double Helix structure of DNA; Central Dogma)	26 27	17 to 23 mts 1. to 4 mts
	6.1.2 Packaging of DNA helix - (Structure of Nucleosome - Diagram & Explanation alone; Euchromatin; Heterochromatin)	27	7 to 15 mts
	6.2 The Search For Genetic Material (Transforming Principle)	27	15 to 27Mts
	6.2.1 The Genetic Material is DNA (Hershey-Chase Experiment)	28	Upto 13 Mts
	6.4.2 The Machinery and the Enzymes (DNA dependent DNA polymerase; Replication fork; DNA Ligase)	29	15 to 25 Mts
	6.5.1 Transcription unit(Promoter, Terminator, Structural Gene)	30	6 to 11Mts
	6.5.2 Transcription unit & the Gene (Introns, Exons)	30	14 to 21 Mts
	6.6 Genetic code - Salient Features	31	9 15 Mts
	6.8.1 The Lac Operon	34	11 to 21 Mts
	6.9 Human Genome Project(Expansion of HGP,BAC & YAC)	35	1 to 3 Mts 12 to 18 Mts
	6.1 DNA fingerprinting (Steps;application)	36	Upto 19 Mts
	5	EVOLUTION	
	7.1 Origin of life (Urey-Miller experiment)	38	Upto 8 Mts
	7.3 What are the evidences of evolution? (Homologous organs & Analogous organs with eggs; Observation supporting natural selection - Moths in	39	Upto 8 Mts

	unpolluted area and polluted areas in England)		
	7.7 Hardy Weinberg principle (Equation; 5 factors affecting Hardy Weinberg equilibrium)	40	Upto 16 Mts
	7.9 Origin and Evolution of man (Names alone in sequential order upto Homo sapiens)	41	5 to 22 mts
6	HUMAN DISEASES		
	8.1 Common diseases in humans (Typhoid, Malaria)		
	8.2.1 Innate Immunity (Four types of Barriers)		
	8.2.2 Acquired Immunity (Structure of an Antibody molecule Diagram)		
	8.3 AIDS (Transmission; Test for AIDS; Prevention)		
	8.4 Cancer(Benign tumour, Malignant Tumour, Treatment of cancer)		
	8.5.3 Effects of drug/alcohol abuse		
7	MICOBES IN HUMAN WELFARE		
	10.1 Microbes in Household Products (LAB)		
	10.2.3 Chemicals enzymes and other bioactive molecules		
	10.5 Microbes as biocontrol agents - Bacillus thuringiensis, Trichoderma		
8	BIODIVERSITY AND ITS CONSERVATION		
	15.1.2 (ii) Species- area relationship (graph and equation)		
	15.1.3 the importance of species diversity to the ecosystem (Rivet Popper Hypothesis)		
	15.1.4 Loss of biodiversity- (Causes of biodiversity losses/Evil Quartet)		
	15.2.2 How do we conserve biodiversity {In situ conservation, Ex situ conservation)		

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11. Botany

ക്രമ നമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	സമയം
1	Reproduction in organisms		
	1.1. Asexual Reproduction	1	14.2 to end
		2	Full
	1.2.1.1. Gametogenesis	4	Full
	1.2.2. Fertilisation	5	11.25 to end
2	Sexual reproduction in flowering plants		
	2.2.1. Structure of Microsporangium, Structure of pollen grain	7 8	Full 0 to 16.36
	2.2.2. Megasporangium- structure, megasporogenesis, Female gametophyte	9	Full
	2.2.3. Pollination – Classification based on source of pollen (Autogamy, geitonogamy and xenogamy) and agents of pollination (wind, water and insects – peculiarities with examples) and artificial hybridisation	10 12	Full 0 to 11.25
	2.3. Double fertilisation	12	11.25 to 19.17
	2.4.2. Embryo – structure	13	0 to 12.48
	2.4.3. False fruit. True fruit and Parthenocarpic fruit	13	20.46 to end
	3	Strategies for enhancement in food production	
9.1.1.1. Dairy farm management		15	4.59 to 10.39
9.1.1.3. Bee keeping		15	13.4 to 20.35
9.2. Plant breeding – main steps		17	Full
9.2.4. Plant breeding for improved food quality		19	13.02 to 23.22
9.3. SCP		19	23.22 to end
9.4. Tissue culture		20	Full
4	Biotechnology-Principles and processes		
	11.2. Tools of recombinant DNA technology	23,24	Full
	11.2.1. Restriction enzymes, Gel electrophoresis.	24,25	Full
	11.3. Processes of rDNA technology.	28	11.35 to 13.55
	11.3.3. Amplification of gene of interest using PCR	29	0 to 15.05
	11.3.5. Obtaining the foreign gene product	29	18 to end
5	Biotechnology and its applications		
	12.1. Biotechnological applications in agriculture- Uses GMOs and Bt cotton	30	Full

	12.2.1. Genetically engineered insulin.	31	30.25 to end
	12.2.2. Gene therapy.	32	0 to 11.2
6	Organisms and populations		
	13.13. Adaptations in organisms of deserts, polar regions and high altitudes	37	Full
	13.2.1. Population attributes-Age pyramids and population density	38	13.48 to end
	13.2.2. Population growth (Up to population growth equation)	39	0 to 9.28
	13.2.4. Population interactions – Parasitism, Commensalism and Mutualism	42	Full
7	Ecosystem		
	14.2. Productivity	43	18.58 to end
	14.3. Decomposition	44	0 to 16.23
	14.4. Energy flow – Food chain, Food web and Trophic levels	44	16.24 to end
		45	0 to 14.45
	14.5. Ecological pyramids	45	14.45 to end
14.7. Nutrient cycling – Phosphorus cycle			

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12. Computer Science

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	Structures and Pointers		
1	Concept of structure and example, Defn of Pointer, Use of & and * operators, Static v/s dynamic memory allocation, new and delete operators	1 2	
2	Concept of Object Oriented Programming		
	POP V/s OOP, five concepts of OOP	7, 8, 9	
	Data Structures and Operations		
3	Classification of data structures, Operations on data structures, Concept of stack, queue (linear only) and linked list. Push and Pop operations with algorithms.	10 11 12 13	
	Web Technology		
	Static and Dynamic web pages, Comparison of Client side and Server side scripts,	20 21	
4	Structure of HTML code, Container tags and empty tags, Common attributes of <BODY> tag	22	Full
	Use of important tags (Headings, , <P>, <HR>, text formatting tags, <MARQUEE>, ,), Only the essential attributes need to be considered.	23 24	
	Web Designing using HTML		
	List (Ordered, Unordered, Definition), <A> tag and HREF attribute, Definition of internal and external linking,	25	Full
5	Table tags,	26	
	Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.	27 28 29	
	Client side Scripting using JavaScript		
6	<SCRIPT> tag, Data types, var keyword, Operators,	30 31	Full
	Control structures and Built-in functions	32 33	
	Web Hosting		
7	Types of web hosting, FTP client software, Free hosting	35	Full

8	Database Management System		
	Advantages of database, Types of users, Components of DBMS, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)	36 37	Full
9	Structured Query Language		
	SQL components, SQL data types, Constraints,	38 39	Full
	Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only).	41 45	
	SQL aggregate functions	44	
10	Server side Scripting using PHP		
	echo() V/s print, PHP data types, Operators and Control structures	46, 47, 48	
11	Advances in Computing		
	Serial V/s Parallel computing, Cloud computing and three services, Applications of computational intelligence – listing only	53, 54, 55	
12	ICT and Society		
	Applications of ICT – Education, Business, Governance. Cyber crimes against individuals.	57, 58	

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13. Economics

ക്രമനമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	സമയം
	Part 1 Introductory Microeconomics		
1	1.1 A Simple Economy 1.2 Central Problems Of An Economy 1.3 Organisation Of Economic Activities 1.3.1 The Centrally Planned Economy 1.3.2 The Market Economy 1.5 Microeconomics And Macroeconomics	1 3	Up To 25:30
2	2.1 Utility 2.1.1 Cardinal Utility Analysis 2.1.2 Ordinal Utility Analysis 2.2 The Consumer's Budget 2.2.1 Budget Set And Budget Line 2.3 Optimal Choice Of The Consumer 2.4 Demand 2.4.1 Demand Curve And The Law Of Demand 2.4.3 Normal And Inferior Goods 2.4.4 Substitutes And Complements	4 5 6 7 8 9 10 11	Up To 23 :56 8:40 To19:00
3	3.1 Production Function 3.2 The Short Run And The Long Run 3.3 Total Product, Average Product And Marginal Product 3.4 The Law Of Diminishing Marginal Product And The Law Of Variable Proportions 3.7 Costs 3.7.1 Short Run Costs	15 16 18 19 20	8:00 To 27:00 First 15 Minutes 13:00 To 28:00
4	4.1 Perfect Competition:Defining Features 4.2 Revenue	36	Full
5	5.1 Equilibrium, Excess Demand, Excess Supply 5.2 Applications	40	Full
6	6.1 Simple Monopoly In The Commodity Market	41	Full
	Part 2 Introductory Macroeconomics		
1	1.1 Emergence Of Macroeconomics	22, 23	
2	2.1 Some Basic Concepts Of Macroeconomics 2.2.1 The Product Or Value Added Method 2.2.2 Expenditure Method 2.2.3 Income Method 2.2 Circular Flow Of Income And Methods Of	24 25 26 27 28,29,30, 31	

	Calculating National Income	and 32	
3	3.1 Functions Of Money 3.2 Demand For Money And Supply Of Money 3.2.1. Demand For Money 3.2.2. Supply Of Money	34	First 6 Minutes
4	4.1 Aggregate Demand And Its Components 4.1.1. Consumption 4.1.2. Investment 4.2 Determination Of Income In Two-Sector Model	43 44 45 46	First 6 Minutes
5	5.1 Government Budget — Meaning And Its Components 5.1.1 Objectives Of Government Budget 5.1.2 Classification Of Receipts 5.1.3. Classification Of Expenditure 5.2 Balanced, Surplus And Deficit Budget	47 48	Full
6	6.1 The Balance Of Payments 6.1.1 Current Account 6.1.2 Capital Account	50	Full

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14. Geography

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	Transport and Communication	31 & 32	
	Part II		
2	Migration - Types, Causes and Consequences	10 11	
	Human Settlements	18 19	
	Mineral and Energy Resources	26 28	

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15. Computer Applications (Commerce)

ക്രമനമ്പർ	പാഠം / ഫോക്കസ് ഏരിയ	എപ്പിസോഡ്	സമയം
1	Review of C++ Programming		
	Tokens, Data types	1	Full
	Control statements.	2	
Simple programs may be asked.	3		
Arrays			
2	Syntax to declare array, Accessing of elements, String handling, I/O functions to handle strings. No programs required	5 6 9	Full
Functions			
3	Advantages of Functions Built in functions (Name and use only), Call by value and Call by reference method. No programs required	11 12 13 14,17	Full
Web Technology			
4	Static and Dynamic web pages, Comparison of Client side and Server side scripts,	20 21	Full
	Structure of HTML code, Container tags and empty tags, Common attributes of <BODY> tag	22	
	Use of important tags (Headings, , <P>, <HR>, text formatting tags, <MARQUEE>, ,), Only the essential attributes need to be considered.	23 24	
Web Designing using HTML			
5	List (Ordered, Unordered, Definition), <A> tag and HREF attribute, Definition of internal and external linking,	25	Full
	Table tags,	26	
	Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.	27 28 29	
Client side Scripting using JavaScript			
6	<SCRIPT> tag, Data types, var keyword, Operators,	30 31	Full
	Control structures and	32	
	Built-in functions	33	

7	Web Hosting		
	Types of web hosting, FTP client software, Free hosting	35	Full
8	Database Management System		
	Advantages of database, Types of users, Components of DBMS, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)	36 37	Full
	Structured Query Language		
9	SQL components,	38	Full
	SQL data types,	39	
	Constraints,		
	Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only).	41 45	
	SQL aggregate functions	44	
10	Enterprise Resource Planning		
	Functional units of ERP (listing only), Examples for ERP packages, Benefits of ERP.	48 49	Full
	Trends and Issues in ICT		
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	Short note on mobile OS,	58	
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16. Sociology

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1	Part I INTRODUCING INDIAN SOCIETY		
	Advantages and Disadvantages of prior knowledge in sociology, Self Reflexivity, Social Map, C Wright Mills. Common sense Map	1	Full
2	THE DEMOGRAPHIC STRUCTURE OF THE INDIAN SOCIETY		
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	Demographic Transition theory	4	
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	Tribal community	13	
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	Family and kinship	15	
4	THE MARKET AS A SOCIAL INSTITUTION		
	Sociological perspectives on markets and the economy	16	
	Caste based market and trading networks in pre colonial and colonial India	17	
	Social organisations of market and traditional business communities	17	
	Colonialism and the emergence of New markets	18	
5	PATTERNS OF SOCIAL INEQUALITY AND EXCLUSION		
	What is social about social inequality and exclusion		
	Social Exclusion		
	Inequality		
	State and non state Initiative addressing caste and tribe discrimination		

	Dimensions of untouchability		
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	Adivasi struggle	22	
	Struggles for women's equality and rights	23	
	THE CHALLENGES OF CULTURAL DIVERSITY		
6	Diversity emphasises difference rather than inequalities	24	
	Importance of community identity	24	
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17. History

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18. Political Science

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20. Accountancy Part I

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